



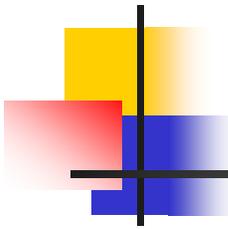
Voluntary Residential Wood Smoke Reductions Initiative

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What Am I Going To Cover?

- Outline EPA's Residential Wood Smoke Reduction Initiative
- Ask for Your Feedback—Concerns? Comments? Suggestions?



What Is EPA's Voluntary Residential Wood Smoke Reduction Initiative?

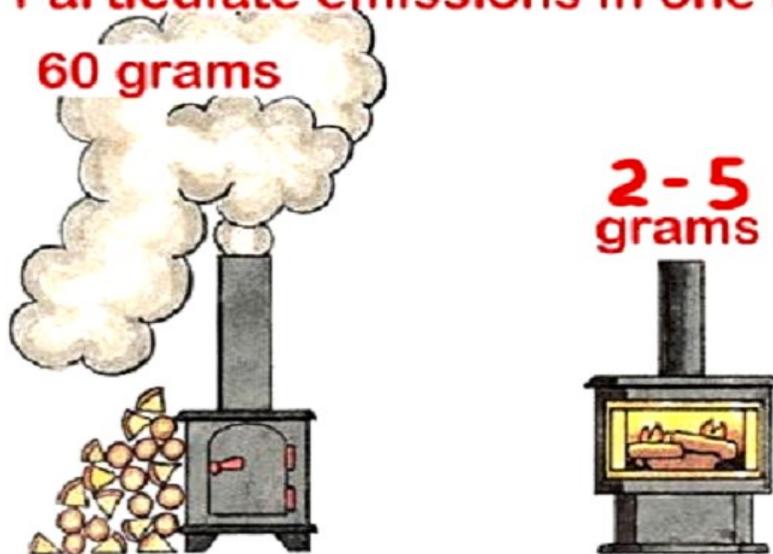
Major components

- Changing Out Old Woodstoves/Fireplace Inserts (Main focus)
- “Burn Clean” National Education and Outreach Campaign
- Supporting & Developing Standards (voluntary and/or regulatory) for Fireplaces, Woodstoves and Outdoor Wood Boilers

Woodstove Change-outs: Opportunity

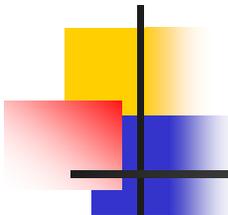
- 8-9 million old woodstoves in use
- Cleaner burning, more efficient technologies available
- Can measure the benefits and cost effective

Particulate emissions in one hour:



Old

New



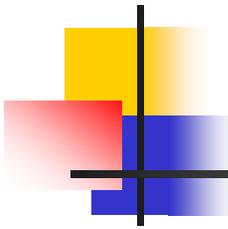
Woodstove Change-outs: Challenges

- Replacement with new “cleaner” alternatives are relatively expensive
~\$1500 – \$3000 per stove (including installation)
- Old woodstoves last 30-40 years, (8-9 million)
- Replacing old woodstoves is not amenable to a regulatory program...need creative/innovative approaches
- Many people whose primary heat source is wood cannot afford new stoves even after a discount or rebate



Woodstove Change-out Campaigns

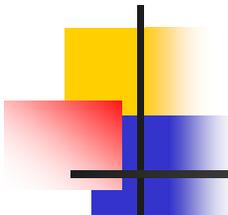
- Pilot Projects—Demonstration grants
- “How to” Document—Lessons learned
- Support to those interested in beginning a change-out campaign
 - Public education materials
 - Ready to go media outreach materials
- Guidance for quantifying emission reductions for SIP credits



Woodstove Change-outs: Where Are The Pilots?

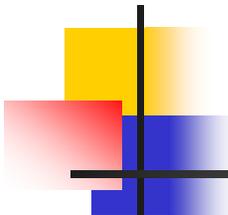
Pilot Woodstove/Fireplace Insert Changeout Campaign

- **Libby, MT (Fall 05)**
- **Greater Pittsburgh/SW PA area (Fall 05)**
- **Dayton, Ohio ?**
- **FY 06: 3-6 change-out locations if funding becomes available**
- **FY 07 and beyond: Grow into National Program?**



Goals For Pilots

- **Gather insight on tools/information needed to help States/locals/Tribes implement future changeouts**
- **Demonstrate that voluntary changeout campaigns are cost effective, doable and there are supportive partners**
- **Demonstrate measurable emission reductions**
- **Have major media kick off event with EPA Administrator, State leaders, industry leaders, and others to generate interest and media splash**
- **Document pilot successes and “lessons learned” and develop template**

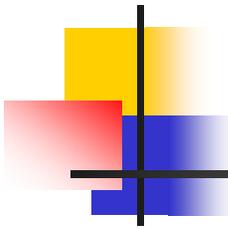


Implementing And Supporting Change-outs Through Pilots

- **EPA Demonstration Grants (FY 05-06):**
 - Funds to purchase cleaner stoves for low income people for a few locations
 - Grant winner: needs to show ability to leverage additional resources

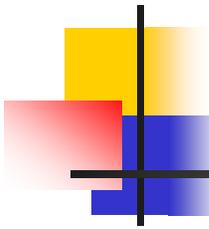
Keys to success

- Build strong partnerships
- Leverage resources to provide funding for low income people to purchase stoves/appliances
- Conduct effective marketing and outreach
- Show benefits/results and market them
 - Libby air monitoring, before and after changeout



Expanding The Number Of Change-outs And Supporting New Efforts

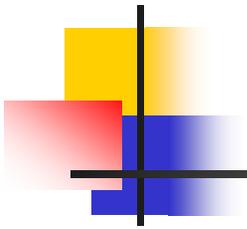
- **Enforcement Settlement Agreement Funds:**
 - Market woodstove changeout as a cost effective tool for addressing PM2.5 and toxics emissions to regulators/enforcers
 - Caution: Can not use settlement \$ in locations where EPA is funding an existing "Program" or "Project"
 - SEP funds may appear suddenly
 - Internal "marketing" efforts are paying off: \$125,000 set aside in Seattle EPA Region 10 as part of settlement agreement



Growing The Initiative: Implementing And Supporting Changeouts

EPA Woodstove Changeout Grant Program?: (FY 08)

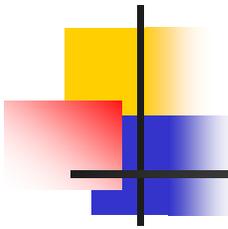
- **Pros**: can focus grant \$ in areas of greatest need, can plan more effectively
- **Cons**: once we have a grant program we can no longer use settlement agreement funds (e.g., School Bus Diesel Retrofit Program)



Residential Wood Smoke Reduction Initiative – What About The Other Components?

Other components include:

- National Education and Outreach Campaign
- Draft woodstove/fireplace website developed
- Voluntary Fireplaces Consensus Standard and National Building Code?
- Voluntary Consensus Outdoor Wood-fired Hydronic Heaters Standard?
- Considering a revision to NSPS for cleaner woodstoves and outdoor wood heaters



What About The Other Components?

- National Education and Outreach Campaign
 - Will tell the public about the health concerns and how to reduce exposures
 - Ready-to-go Media Outreach Package
 - Fact sheets, Brochures, FAQs, PSAs
 - Distribute to S/L/T and media
 - For use during wood burning seasons
 - For pre/post storm news



U.S. Environmental Protection Agency

Smoke-Free Woodstoves and Fireplaces

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Woodstove Home

Choosing the Right Woodstove

List of EPA Certified Woodstoves

Woodstove Efficiency and Safety

Healthier Home, Cleaner Environment

Woodstove Changeout Campaign

Technical Information

Partners & Useful Links

Cleaner Burning

A woodstove or fireplace adds warmth and ambiance to your home. This site offers information to help you choose the right woodstove or fireplace insert and then use it efficiently and safely.

The Right Choice: EPA certified woodstoves and fireplace inserts...

- burn more efficiently—use 1/3 less wood to produce the same amount of heat with much less smoke.
- are safer, cleaner, and healthier for you and your family.
- release less pollution into the air.

Do you have an old, inefficient woodstove?

Woodstoves manufactured before 1990 do not



[Choosing the right woodstove](#): A more efficient, safer, cleaner model that saves money and time

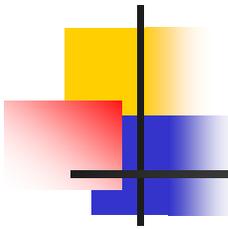


[Using your woodstove efficiently and safely](#)



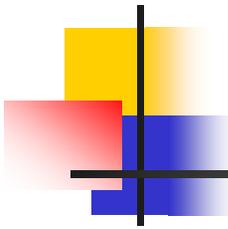
[Healthier home and cleaner environment](#) with an EPA certified woodstove





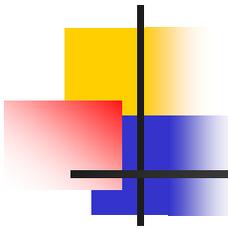
What About Outdoor Wood Boilers?

- Examination underway of magnitude of emissions from outdoor wood boilers
- Strategy for how to address these will depend on the results of the review
- ASTM Committee
 - Developing consensus test method
 - Would allow for consensus emission standard
- Several states and NESCAUM asked EPA to issue regulations....NSPS



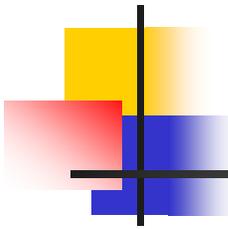
What About Fireplaces?

- ASTM committee
 - Developing consensus test method
 - Would allow development of a consensus emission standard
 - Possible model building code?
- Research
 - Proposal to research possible dioxin emissions from manufactured logs?



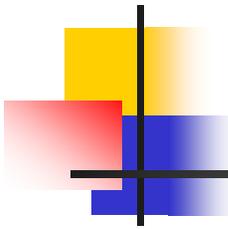
What About The Woodstove NSPS?

- Important to STAPPA/ALAPCO that EPA revise the NSPS
 - To ensure stoves changed out are clean
 - To update the 1988 standard to reflect state of the art
- EPA acknowledges that the NSPS is out of date—it will be revised
 - Court ordered deadlines and other projects will affect the schedule
 - Washington State standard is being met by most stoves in the meantime



Considerations

- Should we advocate for gas over wood?
- Would a revised NSPS actually get reductions?
- What if the grant funds do not get leveraged?
- What if no SEP funds become available?
- Other?



Summary/Feedback

- There is a great deal of energy and support inside and outside EPA.
- There are many facets and opportunities to the initiative.
- We want your comments, concerns, suggestions, support.
- We want to work with you.